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                                                                                                                                                                  273 caatgatgaattcatgatgttgctatcaaaagttgagaaattgtcagaagaaatcatgga 332
                                                                       Gaps
                                                                                             aaaagagaaaaaattgaatcacccagtttaactgaaagcaaagaatctacaacaaaga
                                                                      ;
0
                                               Length 26811;
             Sequence 26811 BP; 8978 A; 3456 C; 3596 G; 10780 T; 1 other;
                                                                      Indels
                                                                                                                                                                                                      17707 TCACACAAAAATCTTTAGCATGATAAATAATTTTGAAG 17670
                                                                      73;
                                               20;
                                                                                                                                                                                         333 gataatgcaaaatttaagtagtatacaggctttggagg 370
                                               DB
                                                          Pred. No. 2.8;
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Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder; neurological disease; infection; human; secreted protein; ss. Human secreted protein cDNA #18. (first entry) 02-FEB-2001

AAC59409 standard; cDNA; 1126

AAC59409

AAC59409;

WO200056765-A1. Homo

28-SEP-2000

16-MAR-2000; 2000WO-US06823.

99US-0125364 99US-0169623 19-MAR-1999; 08-DEC-1999; (HUMA-) HUMAN GENOME SCI INC

Komatsoulis G; Rosen CA, Ruben SM,

WPI; 2000-602215/57. P-PSDB; AAB33979

Nucleic acid molecules encoding human secreted proteins, used in preventing, treating or ameliorating a disorder, e.g. Alzheimer's and preventing, treating or ameliorating. Parkinson's diseases and cancers -

Claim 1; Page 337; 410pp; English.

The invention relates to the isolation of genes AAC59392-C59439 encoding the fusion protein as compared to the human protein only. The genes and proteins are useful for preventing, ameliorating or treating medical conditions, e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer, and other cancers of the adrenal gland, bone, bone took, breast, gastrointestinal tract, liver, lung, or urogenital; 48 human secreted proteins AAB33963-B34006. The genes can be used to generate fusion proteins by linking to the gene for the human immunoglobulin G Fc portion (SEQIDI) for increasing the stability of

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                                            colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein; 593 protein; prostaglandin;
                    Crohn's
                                                                                                                                                                                                                                                                                                                                                                             77 aattcatttgatccttcaaaaatcaaggaagaaagtgttataacttattctccaacaact 136
                                                                                                                                                                                                                                                                                                         891 agttecettgttteaeteatagtgaaagteaacageettecaatgtgetgeeeceetett 950
                                                                                                                                                                                                                                                                                                                                          ggaacttgtcaaatgagtctatttgcttctcccacaagttctgaagagcaaaagcacaga 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid molecules encoding transmembrane proteins designated 65h2 and 293 are useful for screening assays, detection assays and in
                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   specification describes transmembrane proteins designated KIAA0880, 65h2 and 593. The proteins and polynucleotides can be used for screening assays, detection assays, e.g. chromosome mapping, tissue typing, forensic biology and predictive medicine, e.g. diagnostic assays, prognostic assays, monitoring clinical trials and
                                                                                                                                                                                                                                                                                                                                                                                                                  aatggactatcaaatgaaaagagaaaaaattgaatcacccagtttaactgaaagcaaag
(b) immune disorders e.g. Addison's disease, allergies, autoimmun
haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Cr
disease, multiple sclerosis, rheumatoid arthritis and ulcerative
                                                                                                                                                                                                                                   ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence encodes a human transmembrane protein. The
                                                                                                                                                                                                  Length 1126;
                                                                                                                                                                                                                                     Indels
                                                                                                                                           Sequence 1126 BP; 368 A; 291 C; 143 G; 324 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleotide sequence of a human transmembrane protein.
                                                                                                                                                                                                                                 0; Mismatches 102;
                                                                                                                                                                                                  DB 21;
                                                                                                                                                                                                                   .8
                                                                                                                                                                                                Score 40.8;
Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; transmembrane protein; 65h2 thromboxane; KIAA0880 protein; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1071 aaaaaaaaaaaaaaaaaaaaagg 1094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF54867 standard; DNA; 50000
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                                                                                                                                                                                                6.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-JUL-2000; 2000WO-US20521.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99US-0365162.
                                                                                                                                                                                                                               Matches 102; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-JUL-1999;
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AAX20248 to AAX20402 represent polynucleotide sequences isolated from Borrelia burgdorferi (Bb). Products derived from Bb can be used for the detection, diagnosis, characterisation, prevention and therapy of Bb infections, e.g. Lyme disease. They can also be used for the production of biosynthetic products, e.g. enzymes. Borrelia belongs to a family of motile, spiral shaped bacteria called Spirochetes. Spirochetes are pathogenic in humans and Borrelia causes epidemic and 222 ATTIACTAAACTATCCCTGACAGTATTAGTAATTGATATCCAATATTAATATGAAGATAA 163 162 AAAGATTGGGGAAAAATCAATGAAAAAAAAAAAAAAGACAAAATTGAATGTTGATTT--CA 105 282 TTTTTCAACCAAAAACTAGCTATATAAAAAAAATTTAGGATTGAATGGAGAATGTAAAT 223 endemic relapsing fever, and Lyme borreliosis, more commonly known as 472 aaactgtttgaaaagagtacaggacttcctcacaaagcatcacgtcatcttgacagctat 531 104 ATATAAAAGGGAAACTGTTGACGTGGTTGTAATCAATGTTCCCGTGGAATTAAATGAAAT 45 Borrelia burgdorferi; spirochete; bacterium; pathogen; Lyme disease; epidemic relapsing fever; endemic relapsing fever; Lyme borreliosis; infection; diagnosis; characterisation; detection; ds. products for the detection, diagnosis, characterisation, prevention and therapy of infections, particularly Lyme disease agtatacaggetttggagggcagtagagagettgaaaateteattggaatetectgtgca ttgctatcaaaagttgagaaattgtcagaagaaatcatggagataatgcaaaatttaagt 412 tcacatttctaaaaagagaaatgcagaaaaccaaagaactaatgacaaagtgaataaaca New isolated Borrelia burgdorferi nucleic acids - used to develop 532 gaatteettaaageattttaaaetgaggeattaagaagaaatge 575 44 CTTTTTTTTTTGGGAATTTTTTCTTTCTTCTAAAAAGAATTC 1 Lathigra R, Borrelia burgdorferi polynucleotide seguence #6. Claim 1; Page 851-867; 1128pp; English. Dougherty BA, Fraser C, AAX20253 standard; DNA; 26811 97US-0057483. 97US-0050359. 97US-0053344. 97US-0053377. (HUMA-) HUMAN GENOME SCI INC. 98WO-US12764 04-MAY-1999 (first entry) (MEDI-) MEDIMMUNE INC. Borrelia burgdorferi. WPI; 1999-081217/07. WO9858943-A1. .8-JUN-1998; 03-SEP-1997; 20-JUN-1997; 22-JUL-1997; 22-JUL-1997; 30-DEC-1998 Clayton R, AAX20253; AAX20253/c QQ g g g g XEXEX ŏ ŏ ŏ 5 232 tcacccagtttaactgaaagcaaagaatctacaacaaaagacaatgatgaattcatgatg 291 112 tgttataacttattctccaacaactggaacttgtcaaatgagtctatttgcttctcccac 171 aagttctgaagagcaaaagcacagaaatggactatcaaatgaaaaagagaaaaaattgaa 231 The sequence is that encoding the CaCLA4 protein which can be used in the development of an in vitro screening test for compounds that inhibit biological activity of the protein and a system for measuring its activity. The protein is involved in virulence and hyphal formation. Inhibitors are potentially useful for rendering pathogenic fungl (any species in which hyphal induction by kinase occurs) avirulent and/or to treat inflammation. The coding sequence can be used as source of probes for detecting C. albicans in In vitro screening test for agents that inhibit Candida genes involved in virulence - and transition to hyphal form, potentially DB 19; Length 3496; CaCLA4; protein kinase; Ste20p family; screening; virulence; hyphal formation; pathogenic fungi; inhibitor; inflammation; amplification or hybridisation assays, also to identify and Indels Sequence 3496 BP; 1280 A; 598 C; 525 G; 1093 T; 0 other; 7.0%; Score 41.2; DB 19; 45.9%; Pred. No. 1.8; iive 0; Mismatches 248; /*tag= a /product= CaCLA4 protein clone homologous genes from other fungi. Location/Qualifiers 374 aaataaaaaaaaaaaaaaaaa 398 Disclosure; Fig 7; 79pp; English. BP. (CANA) NAT RES COUNCIL CANADA. AAV32554/c ID AAV32554 standard; RNA; 3496 Candida albicans CaCLA4 gene. useful as antimycotic agents 97WO-CA00809 96US-0029458 432..3347 Conservative /*tag= Thomas DY; WPI; 1998-272222/24. Best Local Similarity Matches 213; Conserv Candida albicans. P-PSDB; AAW48896. antimycotic; ss. ₩09818927-A1. 29-OCT-1997; 30-OCT-1996; 13-0CT-1998 07-MAY-1998 Leberer E, AAV32554; Query Match 172

Smith HO;

Lyme disease.

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